

NEVADA DIVISION OF ENVIRONMENTAL PROTECTION

FACT SHEET

(pursuant to NAC 445A.236)

Permittee Name: City of Las Vegas Water Pollution Control Facility
6005 East Vegas Valley Drive
Las Vegas, Nevada 89142
Latitude 36° 08' 05" N, Longitude 115° 02' 22" W
Township 21S, Range 62E, Sections 9 & 10

Permit Number: NEV98015

General: The discharge is from a wastewater treatment plant which consists of primary sedimentation, trickling filters and secondary sedimentation followed by nitrification (activated sludge) for the conversion of ammonia to nitrate, chemical addition and filtration for phosphorous removal, chlorination and dechlorination. Sludge is removed from sedimentation and activated sludge processes and is thickened, digested and dewatered for final disposal in a landfill. This permit covers discharge of tertiary treated effluent to various reuse sites. The current reuse sites are Nevada Power Sunrise Station, Royal Links Golf Club, Stallion Mountain Golf Course, plus discharges on the wastewater treatment plant property for irrigation and other reuse activities.

The majority of the flow into the plant is from domestic wastewater, and includes flows from the City of North Las Vegas and Nellis Air Force Base. There is a small percentage of flow from industry in the service area and there is a pretreatment program which regularly samples and limits the effluent from the industrial dischargers. The pretreatment program is authorized through the United States Environmental Protection Agency (EPA). The surface discharge to the Las Vegas Wash is authorized by NPDES permit NV0020133.

Discharge Characteristics: The discharge is of tertiary quality effluent and meets the State designation of Reuse Category B (NAC445A.276) for bacteriological quality and buffer zone requirements. Reuse Category B does not require a buffer zone for spray irrigation purposes.

Receiving Water: The receiving water is groundwater of the State at the various reuse sites.

Flow: 9.0 MGD

Effluent Characteristics:¹

| Parameter | Minimum | Average | Maximum |
|------------------------------|---------|-------------------|---|
| Fecal Coliform (MPN/100 ml) | <1.1 | 0.79 ² | 2,400 ³ 16.1 ⁴ |
| BOD ₅ (mg/L) | 2 | 3 | 10 |
| TDS (mg/L) | 892 | 1,109 | 1,300 |
| TSS (mg/L) | 2.0 | 3.0 | 15.1 |
| pH (Standard Units) | 6.24 | ----- | 7.76 |
| Total Nitrogen as N (mg/L) | 15.2 | 20.8 | 24.6 |
| Total Phosphorus as P (mg/L) | 0.05 | 0.34 | 1.89 |

¹: January 2001 to December 2006

- ²: Calculation of the Fecal Coliform average for results of < detection limit were done using one half the detection limit. This average value excluded the results of April 27 through May 3, 2004.³
- ³: April 27, 2004 through May 3, 2004: Upset due to new polymer use.
- ⁴: Maximum results excluding April 27 through May 3, 2004 (analysis dates: 7.24.2001, 12.27.2005)

Proposed Effluent Limitations, Schedule of Compliance and Special Conditions:

| PARAMETER | DISCHARGE LIMITATIONS | | MONITORING REQUIREMENTS | | |
|-------------------------------|-------------------------|-------------------|-------------------------|-----------------------|-------------|
| | 30 - day Average | Daily Maximum | Sample Locations | Measurement Frequency | Sample Type |
| Flow (MGD) | 9.0 | M & R | Effluent | Continuous | Flow Meter |
| Flow ((MGD) | M & R | M & R | Each reuse site | Continuous | Flow Meter |
| BOD ₅ -Uninhibited | 30 mg/l | 45 mg/l | Effluent | Daily | Composite |
| TSS | 30 mg/l | 45 mg/l | Effluent | Daily | Composite |
| Fecal Coliform | 2.2 mpn per 100 ml | 23 mpn per 100 ml | Effluent | Weekly | Discrete |
| pH | Between 6.0 to 9.0 S.U. | | Effluent | Daily | Discrete |
| Total Nitrogen (mg/L) | Monitor and Report | | Effluent | Weekly | Composite |

Schedule of Compliance: Within thirty (30) days of permit issuance (**Month XX, 2007**), the Permittee shall submit an updated EMP for landscape irrigation around the treatment plant.

Rationale for Permit Requirements Monitoring is required to ensure that the discharge meets the water quality requirements for treated effluent used for irrigation. Flow measurements are required for each reuse site to track effluent reuse quantities.

Description of the Location of the Discharge: The discharge is to various reuse sites. Currently, the discharge is to Royal Links Golf Club, Stallion Mountain Golf Course, Nevada Power Sunrise Station and onsite reuse activities. Upon Division approval, other reuse sites can be added with a minor modification to the permit

Procedures for Public Comment: The Notice of the Division's intent to issue a permit authorizing the facility to discharge to the groundwater of the State of Nevada subject to the conditions contained within the permit, is being sent to the Las Vegas Review Journal for publication. The notice is being mailed to

interested persons on our mailing list. Anyone wishing to comment on the proposed permit can do so in writing for a period of 30 days (by **August 8, 2007**) following the date of the public notice. The comment period can be extended at the discretion of the Administrator.

A public hearing on the proposed determination can be requested by the applicant, any affected State, any affected interstate agency, the Regional Administrator or any interested agency, person or group of persons. The request must be filed within the comment period and must indicate the interest of the person filing the request and the reasons why a hearing is warranted. Any public hearing determined by the Administrator to be held must be conducted in the geographical area of the proposed discharge or any other area the Administrator determined to be appropriate. All public hearings must be conducted in accordance with NAC 445A.238. The final determination of the Administrator may be appealed to the State Environmental Commission pursuant to NRS 445A.605.

Proposed Determination

The Division has made the tentative determination to issue (renew) the proposed permit for a period of five (5) years.